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(54) **PACKAGE**

VERPACKUNG

EMBALLAGE

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Description

[0001] The invention relates to a package suitable for containing a perishable product, comprising a first shell element provided with an upright circumferential edge and a central portion for accommodating said perishable product, as well as a closure element provided with a circumferential edge, which closure element is placed with its circumferential edge on the upright circumferential edge of said first shell element in an adhering and closing manner and wherein said closure element is provided at its circumferential edge with a protruding lip, which lip does not adhere to the circumferential edge of said first shell element, for the purpose of peeling off said closure element from said first element.

[0002] Such a package is generally known, it is used for packaging products or substances, more in particular for perishable products or substances, such as foodstuffs. More specifically, such packages are used for packaging perishable foodstuffs in the form of a liquid or a gel-like substance, such as milk or yoghurt products, sweet products such as honey, jam, peanut butter, chocolate spread etc etc. Such packages are gaining in popularity these days, and consequently they are increasingly used as one-person packages.

[0003] FR2801570 A discloses packaging for food products the condition of which changes based on temperature, including chocolate-based products.

[0004] One drawback of the one-person package that is currently known is the fact that the product present in the package must be directly consumed once the package has been opened or the closure element has been peeled off. The fact is that the package as referred to in the introduction cannot be considered to be a reclosable package.

[0005] The object of the invention is to provide a more versatile package as referred to in the introduction, which new package is more multifunctional and which can furthermore be used in various ways by the user.

[0006] Accordingly the present invention provides a package suitable for containing a perishable product, comprising a first shell element provided with a generally planar bottom surface and an upright circumferential edge and a central portion for accommodating said perishable product, as well as a closure element provided with a circumferential edge, which closure element is placed with its circumferential edge on the upright circumferential edge of said first shell element in an adhering and closing manner and wherein said closure element is provided at its circumferential edge with a protruding lip, which lip does not adhere to the circumferential edge of said first shell element, for the purpose of peeling off said closure element from said first element, wherein near said lip the two circumferential edges are provided with a closed channel being in communication with said central portion, and wherein at least one of said circumferential edges is provided with a fracture line extending substantially perpendicularly to said channel so as to al-

low the channel to be opened by fracturing the package along the fracture line.

[0007] According to the invention, the package is to that end characterized in that near said lip the two circumferential edges are provided with a closed channel being in communication with said central portion, and wherein at least one of said circumferential edges is provided with a fracture line extending substantially perpendicularly to said channel. An additional use is created with this package according to the invention, viz. metering the product present in the central portion of the package via the channel. The channel functions as a metering opening. The metering channel is opened by tearing off the foil material along the fracture line, and a package is realised which, in addition to the serving function (viz. the peeling off of the closure element from the first shell element) also has a metering function.

[0008] In a special embodiment, the package according to the invention is characterized in that at least one of the circumferential edges is provided with at least one notch near the fracture line. The circumferential edge may be provided with a notch on either side of the fracture line, in which case the notch terminates at a position close to the channel. With this embodiment of a package according to the invention, which features a notch near the fracture line and the channel, a simple turning movement will cause the foil material to be locally torn and the channel to be opened, thus creating a package provided with a metering opening.

[0009] The two different functions render the package according to the invention more versatile in use.

[0010] In another embodiment, the closure element is embodied as a flat element lying in the plane of the circumferential edge.

[0011] In another embodiment, the closure element is embodied as a second element having an upright circumferential edge and a central portion. Preferably, said first and said second shell element are identical. In yet another advantageous embodiment of the package according to the invention, the closure element and the first shell element are made of the same material. Said parts may also be made of different materials, however.

[0012] The invention will now be explained in more detail with reference to the drawing, in which:

Figures 1a-1b show a first embodiment of a package according to the present invention; and

Figure 2 shows another embodiment of a package according to the present invention.

[0013] The package 10 that is shown in Figures 1a and 1b is made up of a first shell element 11 provided with upright edges 11b, which forms a circumferential edge 11a. The package 10 is furthermore provided with a closure element 12, which is likewise provided with a circumferential edge 12a which, on account of its adhesive property, can be removably yet sealingly placed on the

circumferential edge 11a. As a result, the central portion 13 thus formed by the first shell element 11 and the product contained therein can be sealed.

[0014] The package according to the invention is in particular suitable for containing a certain amount of a foodstuff, such as milk or yoghurt products, but also liquids or suspension-like foodstuffs such as mayonnaise, ketchup, jam, peanut butter, etc etc. However, the package according to the invention is also suitable for containing a certain amount of a body care product, such as soap, shampoo, hair conditioner, cosmetics, etc etc.

[0015] The closure element 12 is provided, in a manner which is known per se, with a projecting lip 14a, which a user can pull up with his hand in a known manner, so that the closure element 12 can be peeled off the circumferential edge 11a of the upright edge 11b of the first shell element 11 by its circumferential edge 12a. In this known manner the package 10 is opened in its entirety and the amount of the product contained in the central portion 13 becomes available for being used or consumed by the user.

[0016] One problem of this currently known package, which may be embodied as a cup for coffee cream, is the fact that the amount of product contained in the package 10 must be consumed directly and cannot be stored for a prolonged period of time once the package 10 has been opened. Consequently, there is a need for a package which on the one hand provides a possibility of opening the package completely, as is the case with the package that is presently known, but which on the other hand also provides a possibility of storing the products contained in the package 10 for some time once the package has been opened, without the risk of spillage or rapid decay.

[0017] The embodiment of the package 10 that is disclosed in Figures 1a and 1b is to that end characterized in that the package 10 is provided with a channel 15, which channel 15 is formed by the two lips 14a and 14b of the closure element 12 and the first shell element 11, respectively, which are arranged one on top of the other. The channel 15 that is thus formed by the lips 14a-14b arranged one on top of the other is fully enclosed by the material of the lips 14a-14b and opens into the central portion 13 in which the liquid or suspension-like product is contained near the position that is indicated by numeral 15a in the Figure. Furthermore, the lip 14a, and more in particular also the lip 14b of the first shell element 11 is provided with a fracture line 16, which fracture line 16 extends perpendicularly to the channel 15. The fracture line 16 may be formed by making a small cut in the material of the lip 14a.

[0018] Thus it is possible for the user on the one hand to pull the lip 14a up and peel the closure element 12 off the circumferential edge 11a of the first shell element 11, but in addition it is possible to bend the lip 14a (and possibly the lip 14b) back a few times along the fracture line 16, until the lip 14a (and 14b) breaks off due to material fatigue, so that the channel 15 is opened and an outflow

opening is thus formed.

[0019] The user can thus meter the product contained in the central portion (a foodstuff or a cosmetic product) via the outflow opening formed by the channel (which is open now) by pressing on the first shell element 11 and the closure element 12.

[0020] The present package 10 is in particular very suitable for packaging mayonnaise or ketchup products, for example, and the package is opened by peeling off the closure element 12, thus forming a fully open package 10, or a closed package 10 having a small metering opening 15 is formed by breaking off the lip 14a (and possibly the lip 14b).

[0021] In Figure 2 another embodiment of the present invention is shown, in which like parts are indicated by identical numerals.

[0022] As in Figure 1, both the first shell element and the closure element 12 are provided with overlapping lips 14a-14b, which form a channel 15, which channel opens into the central portion 13 of the package 10 at the position indicated at 15a. Both the lip 14a of the closure element 12 and the lip 14b of the first shell element 11 are provided with a fracture line 16 extending perpendicularly to the channel 15 in this embodiment. Furthermore, the two lips 14a-14b are each provided with a notch 17a and 17b, respectively, which notches terminate close to the channel 15.

[0023] The user can now turn or break off the lips 14a-14b along the fracture line 16 by turning or twisting the two lips 14a-14b about the elongate axis 18 formed by the channel 15, thus creating an open aperture 15 that functions as a metering opening.

[0024] This embodiment, too, provides a multifunctional package 10 according to the invention, which, in addition to the known possibility of being opened by peeling off the shell element 12, also provides a metering function.

[0025] In one possible embodiment, the closure element 12 may be embodied as a flat element lying in the plane of the circumferential edge 12a, whilst in another embodiment the closure element 12 may be embodied as a second shell element having an upright circumferential edge 12a as well as a central portion 19 as shown in Figure 2b. Said first and said second shell element 11 and 12 may be identical. Although it is possible to use different materials for the first shell element 11 and the closure element 12, the two elements are preferably made of the same material. This results in a strong as well as uniform package 10, which in addition provides a certain degree of rigidity when used for metering the product contained in the package 10, the more so because the package 10 can be squeezed empty by the user when metering the product.

Claims

1. A package (10) suitable for containing a perishable

product, comprising a first shell element (11) provided with a generally planar bottom surface and an upright circumferential edge (11a) and a central portion (13) for accommodating said perishable product, as well as a closure element (12) provided with a circumferential edge, which closure element is placed with its circumferential edge on the upright circumferential edge of said first shell element in an adhering and closing manner and wherein said closure element is provided at its circumferential edge with a protruding lip (14a), which lip does not adhere to the circumferential edge of said first shell element, for the purpose of peeling off said closure element from said first element, wherein near said lip the two circumferential edges are provided with a closed channel (15) being in communication with said central portion, and wherein at least one of said circumferential edges is provided with a fracture line (16) extending substantially perpendicularly to said channel so as to allow the channel to be opened by fracturing the package along the fracture line.

2. A package according to claim 1, **characterized in that** at least one of the circumferential edges is provided with at least one notch (17a, 17b) near said fracture line.
3. A package according to claim 2, **characterized in that** said circumferential edge is provided with a notch on either side of said fracture line.
4. A package according to claim 2 or 3, **characterized in that** said notch terminates at a point close to said channel.
5. A package according to one or more of the claims 1-4, **characterized in that** the closure element is embodied as a flat element lying in the plane of the circumferential edge.
6. A package according to one or more of the claims 1-4, **characterized in that** said closure element is embodied as a second element having an upright circumferential edge and a central portion (19).
7. A package according to one or more of the preceding claims, wherein said closure element and said first element are made of the same material.

Patentansprüche

1. Verpackung (10), die zum Aufnehmen eines verderblichen Produkts geeignet ist, umfassend ein erstes Schalelement (11), das mit einer allgemein ebenen Unterseite und einem aufrechten Umfangsrand (11a) und einem mittleren Abschnitt (13) zum Unterbringen des verderblichen Produkts sowie ei-

nem mit einem Umfangsrand versehenen Verschlusselement (12) versehen ist, wobei das Verschlusselement auf haftende und schließende Weise mit seinem Umfangsrand an dem aufrechten Umfangsrand des ersten Schalelements platziert ist und wobei das Verschlusselement an seinem Umfangsrand mit einer vorstehenden Lippe (14a) versehen ist, wobei die Lippe zum Zweck des Abschälens des Verschlusselements von dem ersten Element nicht an dem Umfangsrand des ersten Schalelements haftet, wobei die zwei Umfangsränder in der Nähe der Lippe mit einem geschlossenen Kanal (15) versehen sind, der mit dem mittleren Abschnitt in Verbindung steht und wobei mindestens einer der Umfangsränder mit einer Bruchlinie (16) versehen ist, die sich im Wesentlichen senkrecht zu dem Kanal erstreckt, um zuzulassen, dass der Kanal geöffnet wird, indem die Verpackung entlang der Bruchlinie gebrochen wird.

2. Verpackung nach Anspruch 1, **dadurch gekennzeichnet, dass** mindestens einer der Umfangsränder mit mindestens einer Kerbe (17a, 17b) in der Nähe der Bruchlinie versehen ist.
3. Verpackung nach Anspruch 2, **dadurch gekennzeichnet, dass** der Umfangsrand auf beiden Seiten der Bruchlinie mit einer Kerbe versehen ist.
4. Verpackung nach Anspruch 2 oder 3, **dadurch gekennzeichnet, dass** die Kerbe an eine Stelle nah bei dem Kanal endet.
5. Verpackung nach einem oder mehreren der Ansprüche 1-4, **dadurch gekennzeichnet, dass** das Verschlusselement als flaches Element ausgeführt ist, das in der Ebene des Umfangsrandes liegt.
6. Verpackung nach einem oder mehreren der Ansprüche 1-4, **dadurch gekennzeichnet, dass** das Verschlusselement als ein zweites Element mit einem aufrechten Umfangsrand und einem mittleren Abschnitt (19) ausgeführt ist.
7. Verpackung nach einem oder mehreren der vorangehenden Ansprüche, wobei das Verschlusselement und das erste Element aus dem selben Material hergestellt sind.

Revendications

1. Emballage (10) adapté pour contenir un produit périssable, comprenant un premier élément coque (11) doté d'une surface inférieure plane de manière générale et d'un bord circonférentiel vertical (11a), et une portion centrale (13) pour recevoir ledit produit périssable, ainsi qu'un élément de fermeture (12)

doté d'un bord circonférentiel, alors que le bord circonférentiel de cet élément de fermeture est placé sur le bord circonférentiel vertical dudit premier élément coque suivant une manière d'adhérence et de fermeture, et cas dans lequel ledit élément de fermeture est doté, au niveau de son bord circonférentiel, d'une lèvre en saillie (14a), alors que cette lèvre n'adhère pas au bord circonférentiel dudit premier élément coque, dans le but de permettre le pelage par arrachement dudit élément de fermeture à partir dudit premier élément, cas dans lequel les deux bords circonférentiels, situés à proximité de ladite lèvre, sont dotés d'une section en U fermée (15) laquelle est en communication avec ladite portion centrale, et cas dans lequel l'un au moins desdits bords circonférentiels est doté d'une ligne de rupture (16) qui se prolonge sensiblement suivant un plan perpendiculaire par rapport à ladite section en U de sorte à permettre à la section en U d'être ouverte suite à la rupture de l'emballage le long de la ligne de rupture.

2. Emballage selon la revendication 1, **caractérisé en ce que** l'un au moins des bords circonférentiels est doté d'au moins une encoche (17a, 17b) à proximité de ladite ligne de rupture.
3. Emballage selon la revendication 2, **caractérisé en ce que** ledit bord circonférentiel est doté d'une encoche de part et d'autre de ladite ligne de rupture.
4. Emballage selon la revendication 2 ou 3, **caractérisé en ce que** ladite encoche se termine au niveau d'un point qui est à proche de ladite section en U.
5. Emballage selon une ou plusieurs des revendications 1 à 4, **caractérisé en ce que** l'élément de fermeture est concrétisé sous la forme d'un élément plat lequel se situe dans le plan du bord circonférentiel.
6. Emballage selon une ou plusieurs des revendications 1 à 4, **caractérisé en ce que** ledit élément de fermeture est concrétisé sous la forme d'un second élément lequel possède un bord circonférentiel vertical et une portion centrale (19).
7. Emballage selon une ou plusieurs des revendications précédentes, ledit élément de fermeture et ledit premier élément étant réalisés à partir du même matériau.

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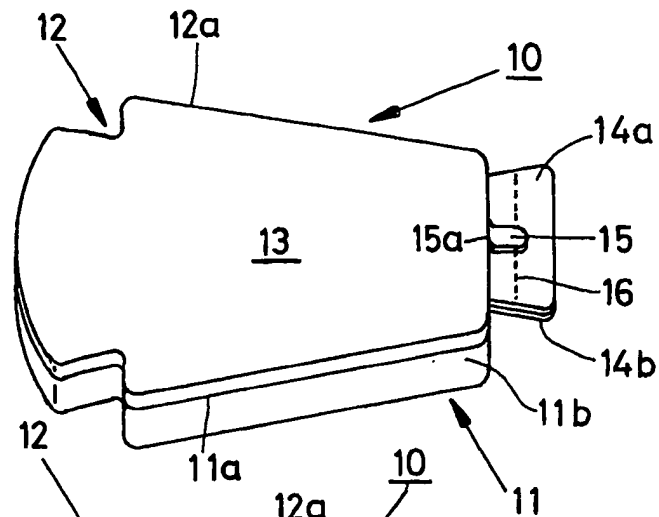


FIG. 1a

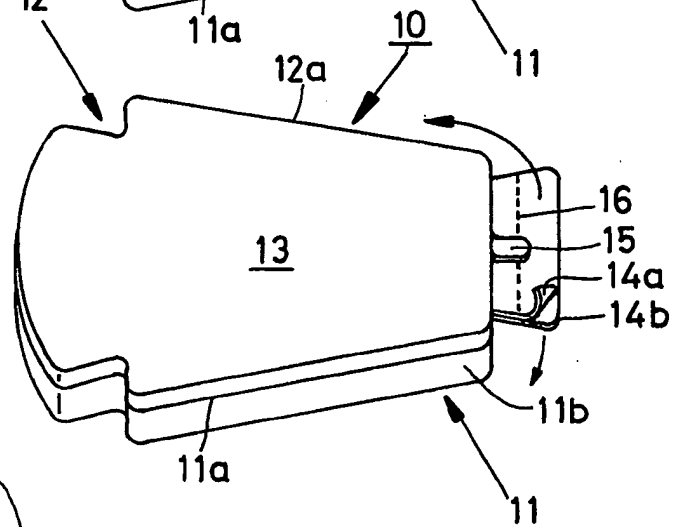


FIG. 1b

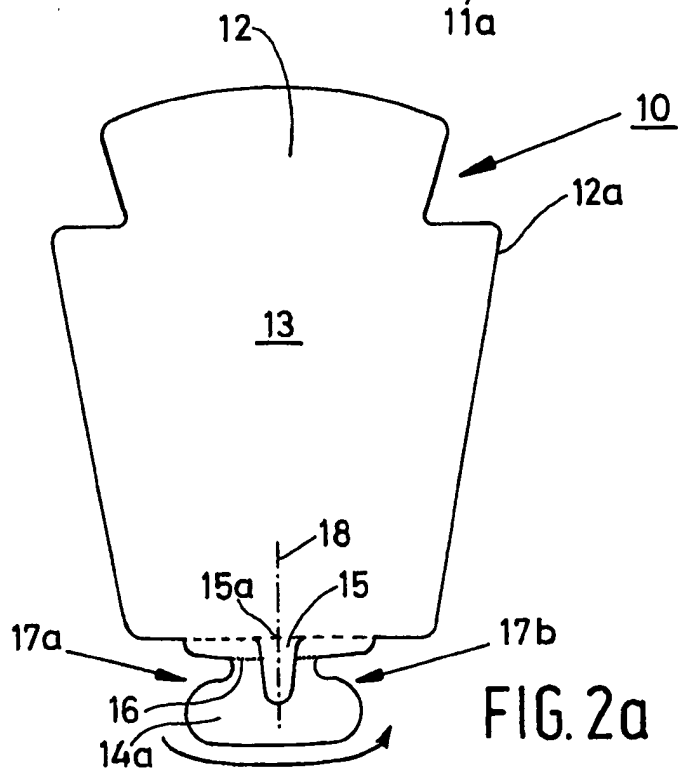


FIG. 2a

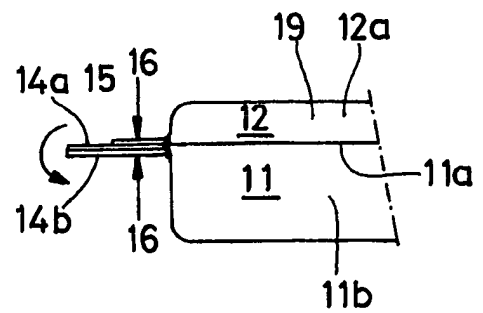


FIG. 2b

REFERENCES CITED IN THE DESCRIPTION

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